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检测
TESTING
CNAS L0446

GRGTEST

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Test Report

Verified code: 409478

Report No.: E20240410840201-4

Customer: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Sample Name: Smart Lock U50

Sample Model: DL-D05D

Receive Sample Date: Apr.11,2024

Test Date: Apr.12,2024 ~ Apr.28,2024

Reference Document: AS/NZS 2772.2:2016/AMDT 1:2018

Test Result: Pass

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GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2024-05-10

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20240410840201-4	Original Issue	2024-04-29

----- The following blanks -----

1 GENERAL DESCRIPTION OF EUT

1.1 APPLICANT INFORMATION

Name: Lumi United Technology Co., Ltd
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

1.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

1.3 BASIC DESCRIPTION OF EUT

Product Name: Smart Lock U50
Product Model: DL-D05D
Adding Model: DL-D05E
Model different description: They have the same technical construction including circuit diagram PCB layout, hardware version and software version identical, except the model name.
Trade Name: Aqara
Power Supply: DC 6V power supplied by 4 AA batteries with the rear lock, DC 5V supplied by USB-C emergency port with the front lock.
Frequency Band: 2402MHz-2480MHz for BLE, 2405MHz-2475MHz for Zigbee, 13.56MHz for NFC
Modulation Type: GFSK for BLE, O-QPSK for Zigbee, ASK for NFC
Antenna Type: FPC antenna for BLE & Zigbee, PCB Antenna for NFC
Antenna Gain: 2.0dBi for BLE & Zigbee
Hardware Version: V3.1
Software Version: 1.0.4_0007
Sample submitting way: Provided by customer Sampling
Sample No: E20240410840201-0002, E20240410840201-0003,
E20240410840201-0004, E20240410840201-0005,
E20240410840201-0006, E20240410840201-0007
Note:
1. The basic description of the EUT is provided by the applicant. This report is made Solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.
2. The bluetooth and zigbee RF chip in the rear lock, and the NFC chip in the front lock.

2 LABORATORY AND ACCREDITATIONS

2.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

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2.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

China CNAS(L0446)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

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3 TECHNICAL REQUIREMENTS SPECIFICATION IN

3.1 RF EXPOSURE EVALUATION

If the average power emitted by the apparatus operating in the frequency range 3 kHz to 300 GHz is less than or equal top 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

3.2 EVALUATION RESULTS

Operating Mode with Modulation				
Packet	Maximum EIRP Level (dBm)	Maximum EIRP Level (mW)	EIRP Limit(mW)	Result
BLE	9.88	9.73	20	PASS
Zigbee	9.63	9.18	20	PASS
NFC	/	1.0188E-05	20	PASS

Note:

- 1) The Maximum EIRP Level please refer to RF report.
- 2) According this requirement the SAR-measurement has not to be consider when the sending level is < 20 mW.

4 APPENDIX A:PHOTOGRAPH OF THE EUT

Please refer to the attached document E20240410840201-7 EUT Photo.

----- End of Report -----